



Hambro® Transfer Slab



ECONOMICAL SOLUTION

FAST INSTALLATION

SIMPLE CONSTRUCTION

LIGHTER IN WEIGHT

HAMBRO TRANSFER SLAB

AN ALTERNATIVE TO CONVENTIONAL PODIUM SLABS

BENEFITS

Simplicity:	Fast and simple to install
Maximum duct opening:	Allows for integration of mechanical, electrical and plumbing systems
Service:	Fast delivery, design assistance and value engineering
Longer spans:	Less concrete and reinforcing steel required, reducing job-site time and costs
Rigidity and strength:	Composite design provides a sound structure
Non-combustible:	UL/ULC/cUL ratings with PVC plumbing and duct openings without fire dampers
Acoustical properties:	STC 57/IIC30
Versatility:	Adapts to all types of framing

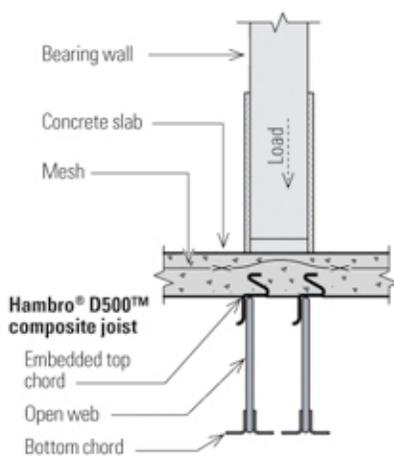
Ideal for podium slabs above garages, garage parking levels, plazas for mixed-use development projects and other applications

The Hambro Transfer Slab is a practical and smart alternative to conventional podium or platform concrete slabs, combining the strength and cost-effectiveness of Hambro joists, Hambro girders and a composite concrete slab.

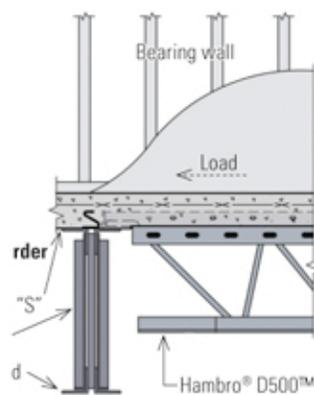
Developed for the multi-residential and commercial markets, the Hambro girder acts as a principal beam to support the Hambro joists installed perpendicularly at regular intervals on both sides. One of the advantages of the composite Hambro girder is that it offers greater spans than the conventional steel girder, while maintaining a minimum depth to adapt to the Hambro joist.

Hambro joists run in one direction and an integrated continuous slab runs in the other. The bottom chord acts as a tension member in the concreting stage and during the service life of the floor. The web system tying top and bottom chords together consists of bent rods and resists vertical shear in a conventional truss manner. The patented 13-gauge top chord acts as a compression member during the non-composite stage. It is embedded in the concrete and functions as a continuous shear connector. The concrete slab is reinforced with welded wire mesh. The top chord functions as a high chair, developing negative moment capacity in the concrete slab which acts as a continuous one-way reinforced slab.

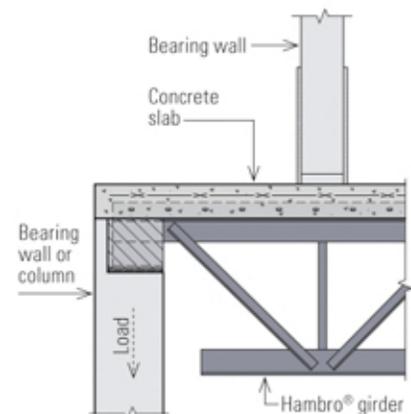
LOAD CHARACTERISTICS



Bearing wall-to-joist



Joist-to-girder



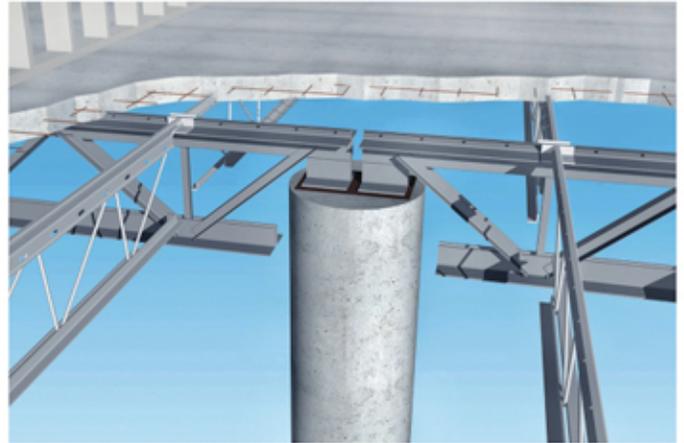
Girder-to-bearing wall

TYPICAL DETAILS

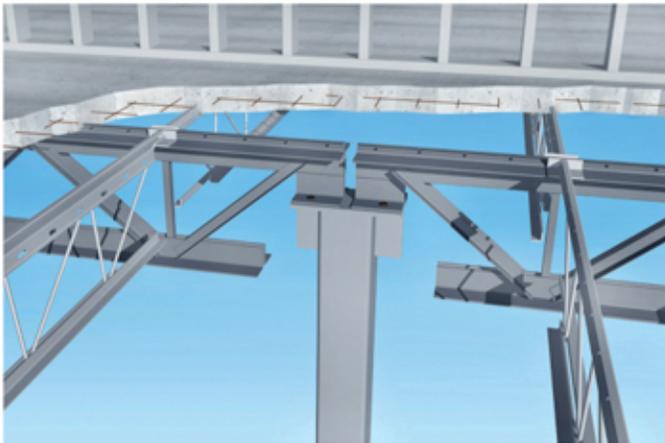
Joist and girder-to-wall



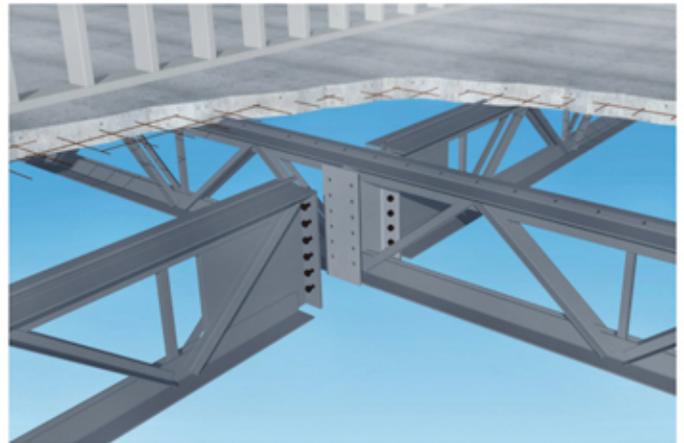
Joist and girder-to-composite column



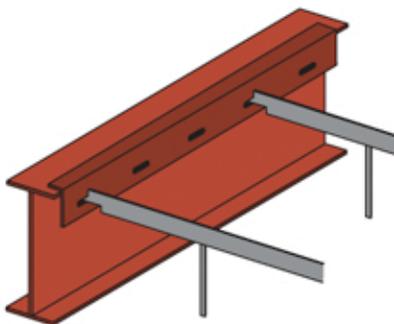
Joist and girder-to-steel column



Girder-to-girder connection

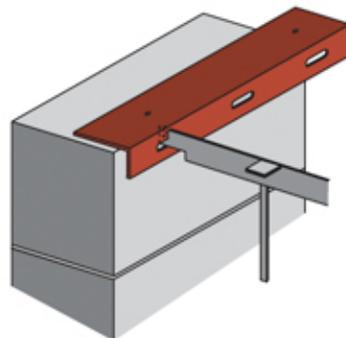


ADDITIONAL ACCESSORIES



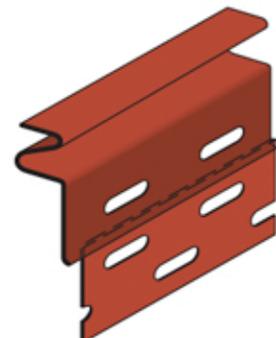
Rollbar® angle (RA) on steel beam

This Hambro accessory is designed to be field-attached to the top flange of a steel beam running parallel to a Hambro joist. The RA is slotted similar to the Hambro S-shaped top chord to accommodate the Rollbar.



RA on walls

This Hambro accessory is fastened at the top of walls and is slotted similar to the Hambro S-shaped top chord to accommodate the Rollbar.



Hanger plate/hanger strip

Shop-attached slotted plate for thicker slab areas.

RATING TABLES

Fire-resistance rating up to 3 hours

Floor/ceiling assemblies using Hambro® have been tested by independent laboratories. Fire resistance ratings have been issued by Underwriters Laboratories Inc. and by Underwriters Laboratories of Canada (ULC), which cover gypsum board, acoustical tile and spray on protection systems. Reference to these published listings should be made in detailing ceiling construction. Check your UL/ULC directory for the latest updating of these listings.

Acoustical properties

STC: The Hambro assembly has a Sound Transmission Class (STC) of 57. STC is a rating that assigns a numerical value to the sound insulation provided by a partition separating rooms or areas. The rating is designed to match subjective impressions of the sound insulation provided against the sounds of speech, music, television, office machines and similar sources of airborne noise that are characteristic of offices and dwellings.

IIC: The Hambro assembly has an Impact Insulation Class (IIC) of 30. IIC is a rating designed to measure the impact sound insulation provided by floor/ceiling construction. The IIC of any assembly is strongly affected by and dependent upon the type of floor finish for its resistance to impact noise transmission.

Materials	STC	IIC
Hambro D500™ floor joist system	57(*)(**)	30(*)(**)

(*) With a drywall ceiling

(**) All results are based on laboratory testing

Note: Laboratory tests were performed on a Hambro assembly consisting of a concrete slab, Hambro joists, metal furring channels and a drywall ceiling. Your professional construction design team should be consulted as to determine the overall requirements of your project and the methods by which they will be achieved.

The information provided herewith is for general information about Hambro products and is subject to change without notice for updates and improvements. Hambro does not accept responsibility for improper use of this information.



SPC No. 05260
(05 21 00)

UL/ULC/cUL Design no.	Rating (hr)	Slab Thickness (in.)	Slab Thickness (mm)	Ceiling	Beam rating (hr)
I506	2	2 ½	65	Gypsum board 1/2 in. (12.7 mm)	-
	2	3 ½	90	Gypsum board 1/2 in. (12.7 mm)	-
I518	1 ½	2 ½	65	Gypsum board 1/2 in. (12.7 mm)	2
	2	2 ¼ - 3	70 - 75	Gypsum board 1/2 in. (12.7 mm)	2
I800	1 - 1 ½ - 2	2 ½ - 2 ¾	65 - 70 76 - 89	Spray-applied	1
G003	2	2 ½	65	Suspended or panel	-
G213	2	3	75	Suspended or panel	2
	3	4	100	Suspended or panel	3
G227	2	2 ½	65	Suspended or panel	3
G228	2	3 ¼	83	Suspended or panel	2
G229	2	3	75	Suspended or panel	2
	3	4	100	Suspended or panel	3
G243	1 ½	2 ¾	70	Suspended or panel	1 ½
	2	3 ¼	83	Suspended or panel	2
G401	4	2 ½	65	Plaster	-
G524	1 - 2	2 ½*	65*	Gypsum board 1/2 in. (12.7 mm)	2
	3	3 ½*	90*	Gypsum board 1/2 in. (12.7 mm)	3
G525	3	3 ¼	83	Gypsum board 5/8 in. (15.9 mm)	3
G702	1 - 2 - 3	Varies*	Varies*	Spray-applied	-
G802	1 - 2 - 3	Varies*	Varies*	Spray-applied	-

* Note: Normal and lightweight concrete



For local sales offices or distributors, please call:
1-800-546-9008 U.S. • 1-800-506-4000 CA

United States – Main Office

450 East Hillsboro Boulevard
Deerfield Beach, Florida 33441
Telephone: 954-571-3030
Toll-free: 1-800-546-9008
Fax: 1-800-592-4943

Canada – Main Office

270, chemin Du Tremblay
Boucherville (Québec) J4B 5X9
Telephone: 450-641-4000
Toll-free: 1-866-506-4000
Fax: 450-641-4001

www.hambro.ws

Canam as well as all logos identifying each business unit are trademarks of Canam Group Inc., except for Hambro which is a trademark of Hambro International (Structures) Limited, a wholly-owned subsidiary of Canam Group Inc.

© Canam Group Inc., 2010
© Canam Steel Corporation, 2010